IBM

Personal System/2 Facts and Features

June 1991

PS/2 it!

Use this handy reference to make quick comparisons of IBM Personal System/2® models—and check their options, too. It presents basic facts and features—as well as attachment cards and enhancement products—for the entire PS/2® family.

Personal System/2 model comparisons

Personal System/2 Model	25	25 286	30 286	35 SX
Machine numbers	8525-001, 004, G01, G04, L01, L04	8525-006, G06, 036, G36	8530-E01, E31, E41	8535-040, 043
Processor	8086	80286	80286	80386 SX
Coprocessor (optional)	8087	80287	80287	Socket
Speed (MHz)	8	10	10	20
Memory cache	None	None	None	None
Bus architecture	PC	AT®	AT	AT
Data path	8-bit	16-bit	16-bit	16-bit
User memory (RAM)[4]				
Standard–maximum on system board	512KB–640KB 640KB (L01, L04)	1MB–4MB	1MB–4MB	2MB–16MB
System maximum (addressable)	640KB	16MB[5]	16MB	16MB
Integrated functions				
Parallel/serial/pointing device ports	Yes	Yes	Yes	Yes
Graphics	MCGA	VGA	VGA	VGA
Display port	No	No	Yes	Yes
Built-in display	Yes	Yes	No	No
Disk/diskette controller	Yes	Yes	Yes	Yes
SCSI	No	No	No	No
Network adapter	Optional	Optional	Optional	Optional
Key lock	Yes	Yes (036, G36)[7]	Yes	Yes
Clock/calendar	No	Yes	Yes	Yes
Security password	No	Yes	Yes	Yes
Diskette drives, 3.5-inch				
Capacity/maximum number supported	720KB/2	1.44MB/2 (006, G06), /1 (036, G36)	1.44MB/2 (E01), /1 (E31, E41)	1.44MB/1
Fixed disk storage				
Standard–maximum (MB)	0–20	0–30 (006, G06)[9] 30 (036, G36)	0–45 (E01)[9] 30 (E31) 45 (E41)	0–80 (040) 40 (043)
Average seek time	80ms	27ms (30MB)	39ms (30MB) 32ms (45MB)	17ms
Expansion slots (available)	2[10]	2[10]	3	3
Power supply	90-watt (001, G01, L01) 115-watt (004, G04, L04)	124.5-watt	90-watt	118-watt
Operating systems				
DOS	3.3, 4.0, 5.0	3.3, 4.0, 5.0	3.3, 4.0, 5.0	3.3, 4.0, 5.0
Operating System/2®	No	SE, EE 1.2, 1.3	SE, EE 1.2, 1.3	SE, EE 1.3
AIX® Personal System/2	No	No	No	No

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[1] Processor upgrade (A81, A61).
[2] 80486 SX microprocessors on 0Gx models.
[3] 20 MHz (0Gx) models do not have a built-in coprocessor function; however, a math coprocessor 487 SX optional feature is available.

35 LS	40 SX	L40 SX	55 SX	55 LS	57 SX
8535-24X	8540-040, 043, 045	8543-044	8555-041, 081	8555-LT0, LE0	8557-045, 049
80386 SX Socket 20	80386 SX Socket 20	80386 SX Socket 20	80386 SX 80387 SX 16	80386 SX 80387 SX 16	80386 SX Socket 20
None	None	None	None	None	None
AT 16-bit	AT 16-bit	AT 16-bit	Micro Channel® 16-bit	Micro Channel 16-bit	Micro Channel 16-bit
2MB–16MB	2MB–16MB	2MB–18MB	4MB–8MB	4MB–8MB	4MB–16MB
16MB	16MB	18MB	16MB	16MB	16MB
Yes VGA Yes No Yes No Token-Ring Yes Yes Yes	Yes VGA Yes No Yes No Optional Yes Yes Yes	Yes VGA Yes Yes—LCD Yes No Optional[6] No Yes Yes	Yes VGA Yes No Yes Optional Optional Yes Yes Yes	Yes VGA Yes No Yes Optional Token-Ring or Ethernet Yes Yes Yes	Yes VGA Yes No Yes Yes Optional Yes Yes Yes
0/2 (1.44MB or 2.88MB[8])	1.44MB/2 (1.44MB or 2.88MB[8])	1.44MB/1	1.44MB/1	0/1 (1.44MB)	2.88MB/2 (1.44MB or 2.88MB)
0–80	0–80 (040) 40–120 (043) 80–160 (045)	60	40 (041) 80 (081)	0–80	80–880 (045) 160–960 (049)
17ms	17ms	19ms	17ms (40MB) 16ms (80MB)	17ms (40MB) 16ms (80MB)	17ms (80MB) 16ms (160MB)
2	5	None[11]	3	2	5
118-watt	197-watt	Rechargeable battery pack; AC adapter	90-watt	90-watt	197-watt
3.3, 4.0, 5.0 SE, EE 1.3[13] No	3.3, 4.0, 5.0 SE, EE 1.3 No	3.3, 4.0, 5.0 SE, EE 1.3 No	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1 (081)	3.3, 4.0, 5.0 No[14] No	5.0 SE, EE 1.3 No

[4] *128KB of this memory is reserved for hardware system use on Models 55 SX, 55 LS, P70 386, 70 386.*

[5] *Achieving this configuration requires installation of non-IBM memory cards.*

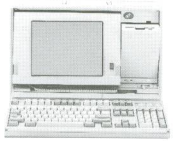
[6] *IBM intends to provide connectivity to IBM networks using the L40 SX's external expansion port and Personal Computer AT versions of the 3278/3279 Emulation Adapter, the 5250 Emulation Adapter, and the Token-Ring Network 16/4 Adapter.*

[7] *Secures fixed disk only.*

[8] *DOS 5.0 is required to support the 2.88MB diskette drive and the media-sense features of the 1.44MB and 2.88MB drives.*

[9] *Second diskette drive and fixed disk are mutually exclusive.*

[10] *One full-size, one half-size; 8525-L01, L04 models use half-size slot for Token-Ring Adapter.*



P70 386	70 386	P75 486	80 386	90 XP 486	95 XP 486
8573-121	8570-081, 161, A81, A61	8573-161, 401	8580-081, 161, 321, A16, A31	8590-0G5, 0G9, 0J5, 0J9, 0KD	8595-0G9, 0GF, 0J9, 0JD, 0JF, 0KD, 0KF
80386 80387 20	80386/80486[1] 80387 20 (081, 161) 25 (A81, A61)	80486 Built-in 33	80386 80387 20 (081, 161, 321) 25 (A16, A31)	80486[2] Built-in[3] 20 (0G5, 0G9) 25 (0J5, 0J9) 33 (0KD)	80486[2] Built-in[3] 20 (0G9, 0GF) 25 (0J9, 0JD, 0JF) 33 (0KD, 0KF)
None	64KB (A81, A61)	8KB	64KB (A16, A31)	8KB (0J5, 0J9, 0KD) 256KB optional (0J5, 0J9, 0KD)	8KB 256KB optional (0J9, 0JD, 0JF, 0KD, 0KF)
Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit	Micro Channel 32-bit
4MB–8MB	4MB–6MB (081, 161) 4MB–8MB (A81, A61)	8MB–16MB	4MB (081, 161, 321) 4MB–8MB (A16, A31)	4MB–32MB (0G5, 0G9) 8MB–32MB (0J5, 0J9, 0KD)	4MB–32MB (0G9, 0GF) 8MB–32MB (0J9, 0JD, 0JF, 0KD, 0KF)
16MB	16MB	16MB	16MB	32MB	32MB
Yes VGA Yes Yes/gas plasma Yes Optional Optional No Yes Yes	Yes VGA Yes No Yes Optional Optional Yes Yes Yes	Yes XGA Yes Yes/gas plasma Yes Standard Optional Yes Yes Yes	Yes VGA Yes No Yes Standard Optional Yes Yes Yes	Yes XGA Yes No Yes Standard Optional Yes Yes Yes	Yes XGA Yes No Yes Standard Optional Yes Yes Yes
1.44MB/1	1.44MB/2	1.44MB/1	1.44MB/2	1.44MB/2	1.44MB/2
120	80 (081, A81) 160 (161, A61)	160 (161) 400 (401)	80–1.04GB (081) 160–1.12GB (161, A16) 320–1.28GB (321, A31)	80–880 (0G5, 0J5) 160–960 (0G9, 0J9) 320–1.12GB (0KD)	160–1.7GB (0G9, 0J9) 320–1.9GB (0JD, 0KD) 400–2.0GB (0GF, 0JF, 0KF)
23ms	16ms	16ms (160MB) 11.5ms (400MB)	17ms (80MB) 16ms (160MB) 12.5ms (320MB)	17ms (80MB) 16ms (160MB) 12.5ms (320MB)	16ms (160MB) 12.5ms (320MB) 11.5ms (400MB)
2[10]	3	4[12]	7	3	6
85-watt	132-watt	120-watt	225-watt 242-watt (A16, A31)	194-watt	329-watt
3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 No	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1	3.3, 4.0, 5.0 SE, EE 1.2, 1.3 1.2.1

[11] *Has an AT bus external expansion port instead.*
[12] *Two full-size; two half-size.*
[13] *A future release of OS/2 LAN Server will provide OS/2 client support for remote program load in a Token-Ring Network.*
[14] *OS/2 client support will be available in a future release of OS/2 LAN Server.*

IBM PS/2 options

Personal System/2 Model	Part no.*	25	25 286	30 286	35 SX	35 LS	40 SX	L40 SX	55 SX	55 LS	57 SX	P70 386	70 386	P75 486	80 386	90 XP 486	95 XP 486
Processors/coprocessors																	
486/25 Power Platform (upgrade)	6450876												■[1]				
486/25 Processor Upgrade	**															■	■
486/33 Processor Upgrade	**															■	■
PS/2 Wizard Adapter	64F7351												■	■	■	■	■
Memory																	
128KB Memory Expansion	78X8955	■															
Multifunction Adapter	30F5364			■													
1–8MB 80286 Memory Expansion Option	6450685								■	■							
2–8MB 80286 Memory Expansion	6450609								■	■							
2–8MB 80386 Memory Expansion	6450605											■	■	■	■		
Enhanced 80386 Memory Expansion 2MB	34F3077											■	■		■		
Enhanced 80386 Memory Expansion 4MB	34F3011											■	■		■		
Storage devices																	
3.5-inch 720KB Diskette Drive	**	■															
3.5-inch 1.44MB Diskette Drive	**		■	■	■	■	■			■	■		■		■	■	■
3.5-inch 2.88MB Diskette Drive	6451106				■	■	■				■						
5.25-inch Internal Diskette Drive	**				■	■	■								■	■	■
5.25-inch External Diskette Drive (360KB)	4869001	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■
5.25-inch External Diskette Drive (1.2MB)	4869002								■	■	■	■	■	■	■	■	■
20MB Fixed Disk	**	■	■	■													
30MB Fixed Disk	**		■	■						■							
40MB Fixed Disk I	6451073				■	■	■										
60MB Fixed Disk	6451084									■							
80MB Fixed Disk I	6451074				■	■	■										
80MB SCSI Fixed Disk	6451045										■				■	■	■
160MB SCSI Fixed Disk	6451046										■				■	■	■
320MB SCSI Fixed Disk	6451108										■				■	■	■
400MB SCSI Fixed Disk	6451081										■				■	■	■
CD-ROM Drive (Internal)	6451113										■				■	■	■
External CD-ROM Drive	3510001								■	■	■	■	■	■	■	■	■
2.3GB SCSI Tape Drive	6451121										■						■
Internal Tape Backup Unit	30F5279				■	■	■				■		■		■	■	■
SCSI Storage Enclosure	35100V0								■	■	■	■	■	■	■	■	■
External Enclosure for SCSI Devices	3511003								■	■	■	■	■	■	■	■	■
Connectivity																	
Token-Ring Network Adapter II	25F9858	■	■	■	■	■	■										
Token-Ring Network Adapter/A	69X8138								■	■	■	■	■		■	■	■
P70 386 Token-Ring Adapter/A	39F9598											■		■			
Token-Ring Network 16/4 Adapter	25F7367	■	■	■	■	■	■										
Token-Ring Network 16/4 Adapter/A	16F1133								■	■	■	■	■	■	■	■	■
Token-Ring Network 16/4 Busmaster Server Adapter/A	74F4140								■	■	■	■	■	■	■	■	■
Token-Ring Network 16/4 Trace and Performance Adapter	74F5121		■	■													
Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130								■	■	■	■	■	■	■	■	■

Performance Adapter	74F5121		■	■															
Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130								■	■	■	■	■	■	■	■	■	■	
Adapter/A for Ethernet Networks	6451091								■	■		■	■	■	■	■	■	■	
PC Network Broadband Adapter II	1501220	■	■	■	■	■	■												
PC Network Broadband Adapter II/A	1501222								■	■	■	■	■	■	■	■	■	■	
PC Network Adapter II Frequency 2, 3	96X5645/6	■	■	■															
PC Network Adapter II/A Frequency 2, 3	96X5647/8								■	■	■	■	■	■	■	■	■	■	
PC Network Baseband Adapter	1501221	■	■	■	■	■	■												
PC Network Baseband Adapter/A	1501223								■	■	■	■	■	■	■	■	■	■	
Multi-Protocol Adapter/A	6451003								■	■	■	■	■	■	■	■	■	■	
Dual Async Adapter/A	6451013								■	■	■	■	■	■	■	■	■	■	
BSC Communications Adapter	1501204	■																	
SDLC Communications Adapter	1501205	■	■	■	■	■	■												
Realtime Interface Co-Processor (RIC)	***	■	■	■	■	■	■												
RIC Multiport	***	■	■	■															
RIC Multiport/2	***				■	■	■		■	■	■	■	■	■	■	■	■	■	
RIC Portmaster Adapter/A	***								■	■	■		■	■	■	■	■	■	
X.25 Interface Co-Processor/2	16F1858								■	■	■		■	■	■	■	■	■	
Serial/Parallel Adapter	6450215	■	■	■	■		■												
Serial Adapter	79F0979							■											
300/1200/2400 Internal Modem/A	94X1755						■		■	■	■	■	■	■	■	■	■	■	
Data/Fax Modem	79F0198							■											
3278/79 Emulation Adapter	53F6425	■	■	■															
3270 Connection	74F3465								■	■	■	■	■	■	■	■	■	■	
Enhanced 5250 Emulation Adapter Kit	30F5383	■	■	■	■	■	■												
System 36/38 W/S Emulation Adapter/A	69X6279								■	■	■	■	■	■	■	■	■	■	
Display Station Emulation Adapter	92X0813	■	■	■	■	■	■												
Display Station Emulation Adapter/A	92X0743								■	■		■	■	■	■	■	■	■	
System/370™ Channel Emulation Adapter/A	1674899								■	■	■	■	■	■	■	■	■	■	
Graphics and multimedia																			
Display Adapter 8514/A	1887972								■	■	■		■	■	■				
XGA Display Adapter/A	75X5887								■	■	■		■		■	■	■	■	
Image Adapter/A	***								■	■	■		■	■	■	■	■	■	
M-Audio Capture/Playback Adapter	87F9908	■	■	■	■	■	■												
M-Audio Capture/Playback Adapter/A	87F9909								■	■	■		■	■	■	■	■	■	
Video Capture Adapter/A	34F2785								■	■	■		■	■	■	■	■	■	
Enhanced M-Motion Video Adapter/A	95F1091								■	■	■		■	■	■	■	■	■	
Other features																			
PS/2 Mouse	6450350	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
PC Music Feature	81X8630	■	■	■															
PS/2 Speech Adapter	1501216	■	■	■															
Micro Channel SCSI Adapter	6451109								■	■	■	■	■	■	■	■	■	■	
Micro Channel SCSI Adapter with Cache	6451110								■	■	■	■	■	■	■	■	■	■	

Displays	PS/2 displays are supported on Models 30 286 and above.
Printers/plotters/scanners	The following are supported on all models: Proprinter,® LaserPrinter, Quickwriter,® Quietwriter,® 3812/3816 Page Printers, ExecJet,™ 618X/737X Color Plotters, 3117/3118 Scanners (not supported on Models 90 and 95 XP 486). The 3119 PageScanner is supported on Models 50 and above.

Additional cards and options are available—consult your IBM marketing representative or IBM Authorized Dealer.
**Other part numbers may be required to support a specific device or function.*
***There is more than one part number for this type of device, depending on specific systems supported.*
****There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.*

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CORRECTION: 8570-A61 should read 8570-A16

G360-2832-08